

Conext™ XW Pro

8.5 kW hybrid inverter/charger for EMEA / APAC

865-8548-55



The ultimate backup power and off-grid performance for solar & storage systems. The XW Pro is the evolution of Schneider Electric's two decades of experience in highly reliable solar & storage off-grid and backup power systems, with the scalability and flexibility to meet your system requirements.

Backup power and off-grid performance

- Reliable operation of backup power and off-grid loads with a high overload power rating (1.75x)
- Seamless transition to backup power with an integrated high-speed transfer switch
- Grid and Generator input ports
- Field proven product quality and reliability

Flexible

- 230 V output, single phase and 3-phase stacking up to 76.5 kW
- Integrates with Conext™ MPPT Charge Controllers as well as grid tied PV inverters for DC-coupled or AC-coupled systems
- Lithium Ion battery integration
- Grid tied and off-grid systems

Easy to Install

- Configures quickly using the Conext Gateway and Conext Insight 2
- AC Out port for backup loads
- Full ecosystem and accessories for single unit or scalable systems

Smart Energy Management

- Optimize energy consumption for time of use rates or demand charges
- Self-consumption of solar energy

Compatible with Gateway & Insight 2

- Remote monitoring & control with advanced data security
- Web and mobile app
- Multi-site management for installers



Technical Specifications

| Conext™ XW Pro 8.5 kW 230V (IEC) | |
|---|---|
| Inverter AC output (standalone) | |
| Output power (continuous) at 25°C | 6800 W |
| Overload 30 min/60 sec at 25°C | 8500 W / 12000 W |
| Output power (continuous) at 40°C | 6000 W |
| Maximum output current 60 seconds (rms) | 53 A |
| Output frequency | 50/60 Hz |
| Output voltage | 230 V +/- 3% |
| AC Output Frequency | 50.0 +/- 0.1 Hz |
| Total harmonic distortion at rated power | < 5 % |
| Idle consumption search mode | < 7 W |
| Input DC voltage range | 40 to 64 V (48 V nominal) |
| Maximum input DC current | 180 A |
| Charger DC output | |
| Maximum output charge current | 140 A |
| Output charge voltage range | 40 – 64 V (48 V nominal) |
| Charge control | Three stage, two stage, boost, external BMS, custom |
| Charge temperature compensation | Battery temperature sensor included |
| Power factor corrected charging | 0.98 |
| Compatible battery types | Flooded (default), Gel, AGM, Lithium ion, custom |
| AC input | |
| AC 1 (grid) input current (selectable limit) | 3 – 60 A (56 A default) |
| AC 2 (generator) input current (selectable limit) | 3 – 60 A (56 A default) |
| Automatic transfer relay rating/typical transfer time | 60 A/8 ms |
| AC input voltage range | 165 - 280 V |
| AC input frequency range (bypass/charge mode) | 45 – 55 Hz (default) 40 – 68 Hz (allowable) |
| AC grid-tie output | |
| Grid sell current (selectable) | 0 to 27 A |
| Grid sell power | 6000W |
| Efficiency | |
| Peak | 95.0% |
| General specifications | |
| Part number | 865-8548-55 |
| Product/shipping weight | 55.2 kg (121.7 lb)/76.7 kg (169.0 lb) |
| Product dimensions (H x W x D) | 58 x 41 x 23 cm (23 x 16 x 9 in) |
| Shipping dimensions (H x W x D) | 71.1 x 57.2 x 39.4 cm (28.0 x 22.5 x 15.5 in) |
| IP degree of protection | IP 20 |
| Operating air temperature range | -25°C to 70°C (-13°F to 158°F) (power derated above 25°C (77°F)) |
| Features | |
| System monitoring and network communications | Available (through Conext™ Gateway) |
| Intelligent features | Grid sell, peak load shave, generator support, solar self consumption |
| Auxiliary port | 0 to 12 V, maximum 250 mA DC output, selectable triggers |
| Off-grid AC coupling | Frequency shifting |
| Regulatory approval (pending) | |
| Safety | IEC/EN 62109-1/-2 |
| EMC directive | IEC/EN61000-6-1, IEC/EN61000-6-3, IEC/EN61000-3-12 |
| Interconnect | IEC/EN 61727, IEC/EN 62116 |
| Compatible products part numbers | |
| Power Distribution Panels | XW PDP (865-1014-01) |
| MPPT Charge Controllers | MPPT 80 600 (865-1032), MPPT 60 150 (865-1030-1) |
| Monitoring & Configuration | Conext Gateway (865-0329), Insight 2 |
| Accessories | System Control Panel (865-1050), Automatic Generator Start (865-1060), Battery Monitor (865-1080-01), Battery Fuse Combiner Box (865-1031-01) |